

# ACTA OCEANOLOGICA SINICA

## Subject Index to Vol. 8, 1989

### Marine Hydrology

- 1 .....A hybrid model for numerical wave forecasting and its implementation —I. The wind wave model  
*Wen Shengchang (S. C. Wen)* (文圣常), *Zhang Dacuo* (张大错),  
*Chen Bohai* (陈波海) and *Guo Peifang* (郭佩芳)
- 15 .....Parameters in wind-wave frequency spectra and their bearings on spectrum forms and growth  
*Wen Shengchang (S. C. Wen)* (文圣常), *Zhang Dacuo* (张大错),  
*Guo Peifang* (郭佩芳) and *Chen Bohai* (陈波海)
- 41 .....Representation of double-peaked sea wave spectra in Jiaozhou Bay  
*Huang Peiji* (黄培基) and *Hu Zejian* (胡泽建)
- 161 .....Study on dynamics of shear waves —I. Scale analysis and dispersion relation  
*Zheng Quan'an* (郑全安) and *Yuan Yeli* (袁业立)
- 171 .....Study on dynamics of shear waves —II. Triggering mechanism and amplitude decay  
*Yuan Yeli* (袁业立) and *Zheng Quan'an* (郑全安)
- 179 .....Numerical modeling of the tide-induced residual current in the East China Sea  
*Tang Yuziang* (汤毓祥)
- 315 .....On the long-term joint distribution of Characteristic wave height and period and its application  
*Fang Zhongsheng* (方钟圣), *Dai Shunsun* (戴顺孙) and *Jin Chengyi* (金承仪)
- 327 .....Some numerical experiments of the dynamics of the wintertime circulation in the Northern Huanghai Sea  
and the Bohai Sea  
*Miao Jingbang* (缪经榜) and *Liu Xingquan* (刘兴泉)
- 337 .....Water masses in the northern South China Sea  
*Fan Liqun* (范立群), *Su Yusong* (苏育嵩) and *Li Fengqi* (李凤岐)
- 467 .....Improved form of wind wave frequency spectrum  
*Wen Shengchang (S. C. Wen)* (文圣常), *Chen Bohai* (陈波海)  
and *Tai Weitao* (秦伟泰)

485.....A combined numerical tidal model for the Hangzhou Bay and Qiantang River

*Cao Demin (曹德明) and Fang Guohong (方国洪)*

497.....Basic characteristics and forming mechanism of the sharp thermocline in the Bohai Sea, Huanghai Sea and northern East China Sea

*Zhao Baoren (赵保仁)*

#### Marine Meteorology

51.....Numerical study of rapid cyclogenesis over sea

*Du Jun (杜俊) and Yu Zhihao (余志豪)*

63.....The effect of the horizontal structure for symmetric tropical cyclones on their movement

*Hu Guangxing (胡广兴)*

77.....A numerical experiment for some time-integration schemes of barotropic equations

*Han Wei (韩巍) and Zhang Yuling (张玉玲)*

191.....A calculation method of the sensible heat flux by sodar

*Lu Naiping (吕乃平), Li Shiming (李诗明), Chen Jingnan (陈景南), Zheng Yuming (郑月明) and Zhou Mingyu (周明煜)*

199.....A comparison analysis between developed and undeveloped depressions over the South China Sea

*Liang Biqu (梁必琪) and Zhang Qiugang (张秋庆)*

209.....The effects of the intertropical convergence zone on the easterly jet stream during Northern summer

*Xu Liang (许亮) and Bao Chenglan (包澄澜)*

217.....The strong winter monsoon in East Asia and El Nino

*Gao Shiyang (高士英) and Wang Jinshu (王静曙)*

307.....Cross-equatorial flow and its effects on the hurricane occurrence over the Southern Hemisphere

*Qinan Ping (钱平) and Wang Jingyi (王景毅)*

351.....Canonical Correlation Analysis and climate research

*Gordon G. Liao*

359.....On similarity profiles predicted in the convective marine boundary layer

*Li Xingsheng (李兴生) and Zhang Ziyu (张子瑜)*

367.....The sea/land breeze in the northern coastal area of Shandong Peninsula

*Wang Sizhen (王赐震) and Song Xilong (宋西龙)*

511.....Numerical modelling of the sea level under the actions of the tide and strong wind in the Bohai Sea

*Zhang Yanting (张延廷) and Wang Yijiao (王以娇)*

- 521.....The low frequency oscillations of the sea surface temperature in the Equatorial Eastern Pacific and El Nino formation  
Zhou Faziu (周发琇) and Yu Shenyu (于慎余)

- 535.....Numerical analysis of the sea (lake) breeze dynamics and initialization of the model  
Wu Zengmao (吴增茂)

#### Marine Physics

- 379.....Satellite remote sensing and profiles of sea-ice and its operational monitoring method along the coast of China  
Gong Jialong (龚家龙)

#### Marine Chemistry

- 91.....Geochemical behaviour of iodine in Jiulong River Estuary  
Guo Jinbao (郭锦宝) and Peng Zhen (彭震)

- 223.....A study on chemical forms of heavy metals in the sediments of Zhujiang River and its estuary  
Zheng Jianlu (郑建禄), Lin Zhiqing (林植青) and Chen Yang (陈阳)

- 237.....Toxic chemistry of heavy metals on *Isochrysis galbana* (parke) in inshore water  
Zheng Zhihong (郑志宏), Liu Shizong (刘士忠) and Wu Yudian (吴瑜端)

- 253.....Radiochemical studies of deep-sea manganese nodules  
Huang Yipu (黄奕普), Luo Shangde (罗尚德), Shi Wenguan (施文远) and Chen Zhen (陈真)

- 263.....Study of radioactive status in the Zhujiang Estuary and adjacent sea area in South China Sea (SCS)  
Liu Huai (刘怀), Su Xiling (苏喜玲), Chen Chi (陈炽),  
Gou Min (郭敏) and Liang Qianlin (梁谦林)

- 391.....Studies on diffusion and profiles of elements in deep-sea manganese nodules  
Luo Shangde (罗尚德), Wang lei (王蕾) and Huang Yipu (黄奕普)

- 401.....A study on sample pretreatment of analysis of Cd, Pb and Zn in seawater by IDMS  
Li Jinxia (李锦霞)

- 549.....Preliminary research on dissolved oxygen maximum of seawater in low latitude of China  
Lin Hongying (林洪瑛) and Han Wuying (韩舞鹰)

#### Marine Geology and Geomorphology

- 101.....Holocene sea level changes and coastline shifts in Zhejiang Province, China  
Feng Huaizhen (冯怀珍) and Wang Zongtao (王宗涛)

- 113.....A preliminary study on genesis of the Qiongzhou Stratis  
Zhang Hunan (张虎男) and Chen Weiguang (陈伟光)

- 125.....A preliminary analysis of arcuate structures —relationship of the island arc and deep-sea trench to the dip angle of Benioff zone  
Wu Lun (邬 仑), Liang Haihua (梁海华), Ren Fuhu (任伏虎) and Li Maosong (李茂松)
- 273.....Relationship between suspended sediments from the Changjiang Estuary and the evolution of the embayed muddy coast of Zhejiang Province  
Cao Peilad (曹沛奎), Hu Fangxi (胡方西), Gu Guochuan (谷国传) and Zhou Yueqin (周月琴)
- 409.....S. E. M. analysis of quartz sand grains from selected Hong Kong and Chinese littoral environments  
A. T. Williams and M. C. Thomas
- 559.....Geological evolution of the Donsha Uplift and its surrounding depressions in the South China Sea  
Li Desheng (李德生) and Jiang Renqi (姜仁旗)
- 601.....Sources and transport of particulate organic carbon in the Amazon River and its estuary  
Cai Deling (蔡德陵), F. C. Tan and J. M. Edmond

#### Marine Biology and Fishery

- 137.....Seasonal variance of salinity tolerance of a copepod *Drepanopus bispinosus* in an Antarctic littoral saline lake (Burton Lake)  
Wang Zipan (王自磐), D. S. Eslake and H. R. Burton
- 145.....The crystal structure of pearls and related shellfish's shells  
Chen Junhao (陈俊豪) and Chen Guiqing (陈贵庆)
- 158.....Vertical distribution of zooplankton in centre of South China Sea  
Chen Ruizhang (陈瑞祥), Cai Bingji (蔡秉及), Lin Mao (林 茂), Lin Jinghong (林景宏), Daiyuangyu (戴燕玉), Lian Guangshan (连光山), Lin Yuhui (林玉辉) and Wang Zhiguan (王志远)
- 160.....Distribution and number change of the littorinidae (Gastropoda) on intertidal hard bed in the Jiulong River Estuary  
Yi Jiansheng (易建生) and Li Fuxue (李复雪)
- 285.....Study of fouling organisms at Tuoji Island in the Bohai Channel  
Wang Jianjun (王建军), Huang Zongguo (黄宗国), Li Chuanyan (李传燕), Zheng Chengxing (郑成兴) and Lin sheng (林 盛)
- 293.....A survey of fishes distribution and reproduction in Beitang Estuary  
Li Mingde (李明德)
- 313.....A reliable and sensitive closing gear  
Lin Yuhui (林玉辉), Guo Qingbai (郭清白), Lian Guangshan (连光山) and Zheng Baoxing (郑宝兴)
- 423.....The behaviour of  $^{59}\text{Fe}$  in marine microhabitat  
Cai Fulong (蔡福龙), Chen Ying (陈 英), Xu Pi'an (许丕安) and Qiu Manhua (邱曼华)

- 431.....Studies on the tropomyosin of marine zooplankton  
*Su Yongquan* (苏永全) and *Xiao Jinglin* (肖景霖)
- 441.....A new genus and a new species of Nereidae  
*He Minghai* (何明海) and *Wu Qiquan* (吴启泉)
- 457.....Diet analysis of Antarctic krill *Euphausia superba* Dana  
*Zhu Genhai* (朱根海)
- 462.....Change of upwelling over Southern Fujian-Taiwan Shoal Fishing Grounds and its relation to the fisheries  
*He Fazing* (何发祥)
- 464.....Observation of a red tide event in the Western Harbour, Xiamen  
*Zhang Shuijin* (张水浸), *Xu Kuncan* (许昆灿), *Qihuan* (陈其焕) and *Zeng Zhaowen* (曾昭文)
- 601.....Preliminary report on the Tunicata in Kuroshio region, southeast of Japan  
*Liu Hongbin* (刘红斌)
- 603.....Trace metal concentration in marine organisms of Huanghe River estuary and adjacent sea region  
*Liu Mingxing* (刘明星), *Zhang Shoulin* (张首临), *Li Guaji* (李国基), *Bao Wangyou* (包万友) and *Gu Hongkan* (顾宏堪)
- 605.....Distribution of chlorophyll a and estimation of primary productivity in the eastern waters of Balingtang Channel in summer  
*Huang Liangmin* (黄良民) and *Chen Qingchao* (陈清潮)
- 606.....Gill surface architecture of mullet, *Mugil soiuy* (Basilewsky): A scanning electron microscope study  
*Wang Liangchen* (王良臣) and *Guo Shuhua* (郭淑华)

#### Marine Engineering

- 445.....The irregular wave force on pier group  
*Qiu Dahong* (邱大洪) and *Wang Yongxue* (王永学)
- 565.....Inline forces on vertical pile in irregular waves  
*Yu Yuzhu* (俞聿修) and *Zhang Ningchuan* (张宁川)
- 577.....Wave-current force on horizontal cylinder  
*Li Yucheng* (李玉成) and *Xu Meikun* (徐梅坤)
- 587.....The relationship between tidal current field and sediment transport in the Huanghai Sea and the Bohai Sea  
*Dong Lixian* (董礼先), *Su Jilan* (苏纪兰) and *Wang Kanghan* (王康堪)

